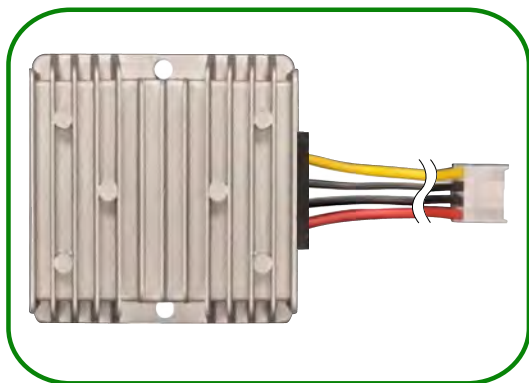


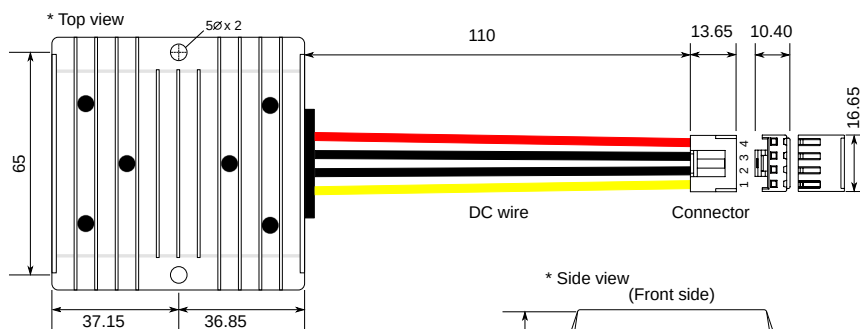
# HDD180XX series 180W DC to DC Power Converter

## SINGLE OUTPUT



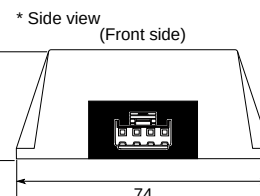
## MECHANICAL DRAWING

- Dimension : L74x W74 x H32mm



## SPECIFICATION

| MODEL NAME               |                       | HDD18012                         | HDD18024 |
|--------------------------|-----------------------|----------------------------------|----------|
| Input                    | Voltage               | 15VDC ~ 35VDC                    |          |
|                          | Nominal/Rated         | 24VDC                            |          |
|                          | Input current         | <15A at 15VDC                    |          |
| Output                   | Voltage               | 12VDC                            | 24VDC    |
|                          | Current               | 15A                              | 8A       |
|                          | Voltage tolerance     | ±5%                              |          |
|                          | Ripple & Noise        | 150mV                            | 240mV    |
|                          | Max. output power     | 180W                             | 196W     |
|                          | Efficiency            | > 90% at input 24VDC             |          |
|                          | Rise time             | > 1ms < 20ms                     |          |
| Protection               | Over current          | Auto-recovery mode               |          |
|                          | Over temperature      | Auto-recovery mode               |          |
|                          | Short circuit         | Auto-recovery mode               |          |
| Environment              | Operating temperature | -25 °C ~ +65 °C                  |          |
|                          | Storage temperature   | -40 °C ~ +70 °C                  |          |
|                          | Humidity              | 20% ~ 95%                        |          |
|                          | MTBF                  | >100,000hrs at 25 °C             |          |
|                          | Waterproof level      | IP68                             |          |
| Module properties        |                       | Non-isolated buck module         |          |
| EMI requirements         |                       | EN55032 Class B, EN61000-4-2,3,4 |          |
| Design meet requirements |                       | RoHS, CE                         |          |
| Case material            |                       | Aluminum alloy & epoxy           |          |
| Dimension(L x W x H mm)  |                       | 74 x 74 x 32 mm(max.)            |          |
| Power weight(N.W.)       |                       | 260g ±5g                         |          |



\* SR specification

PVC 45P Black

\* DC wire specification

| Item | Specification          |
|------|------------------------|
| 1    | UL1015 #18, Black x 2  |
| 2    | UL1015 #18, Yellow x 1 |
| 3    | UL1015 #18, Red x 1    |

\* Connector specification

| Item | Specification       |
|------|---------------------|
| 1    | Housing,3960-4P x 1 |
| 2    | Terminal,3911 x 4   |

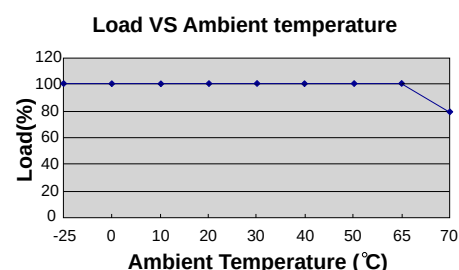
\* Pin assignment

|       |                     |
|-------|---------------------|
| Pin 1 | Output +12V(Yellow) |
| Pin 2 | Output GND(Black)   |
| Pin 3 | Input GND(Black)    |
| Pin 4 | Input +15V~35V(Red) |

\* Bottom view(photo)



## DE-RATING CURVE



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